

North American Annual Review 2005



Welcome to the World of ABB
From our Chairman and CEO,
ABB – North America

ABB returns to financial strength

I am pleased to report we have made continued progress in moving ABB into a new era of profitable growth – both globally and in North America – in 2005.

Globally, ABB posted orders of \$23.6 billion, an increase of 9 percent over the previous year. Revenues were also up, increasing 9 percent to \$22.4 billion. Thanks to continued improvement in the core divisions, ABB finished the year with a net income of \$735 million.

In North America, 2005 marked a significant turning point in reversing a trend of declining performance that spanned several years. Revenues rose to \$3.8 billion, 10 percent over last year. Innovative thinking and a boundary-less mentality will continue to make North America a leading strategic market for ABB.

The new ABB organization

Effective January 1, 2006 ABB's simplified organization went into effect, creating five "stand alone" divisions: Power Products, Power Systems, Automation Products, Process Automation and Robotics, which are featured in the following pages.

A new role at the group level, President, Global Markets and Technology, which I will lead, will help drive the execution of ABB's business strategy and local profitability across national and regional borders to bring our best solutions to our customer's doorstep.

Continued growth

ABB in North America will continue to add skilled professionals to broaden the ABB offering. Our service operation in North America had double-digit growth in 2005 with several long term-service contracts signed. We increased our employee base to support this growth.

In 2005, ABB acquired three smaller companies as part of its focused acquisition strategy to add plant and productivity service solutions for our industry customers, and to complement our existing products and services for a total solution offering to our utility and industrial customers.

Health and safety

Our continuing goal throughout ABB is to provide a safe environment in which our employees can work with zero injuries and the lowest lost time due to accidents. In 2005, Underwriters Laboratories recognized our facility in Mt. Pleasant, Pennsylvania for the OHSAS 18001:1999 standard that covers occupational health and safety.

We also reached another safety milestone. The Occupational Safety and Health Administration awarded our Bartlesville, Oklahoma facility its "SHARP" designation for excellence in workplace safety programs. This facility also received ABB's Quality of Excellence Award, the first in North America.

A time for caring

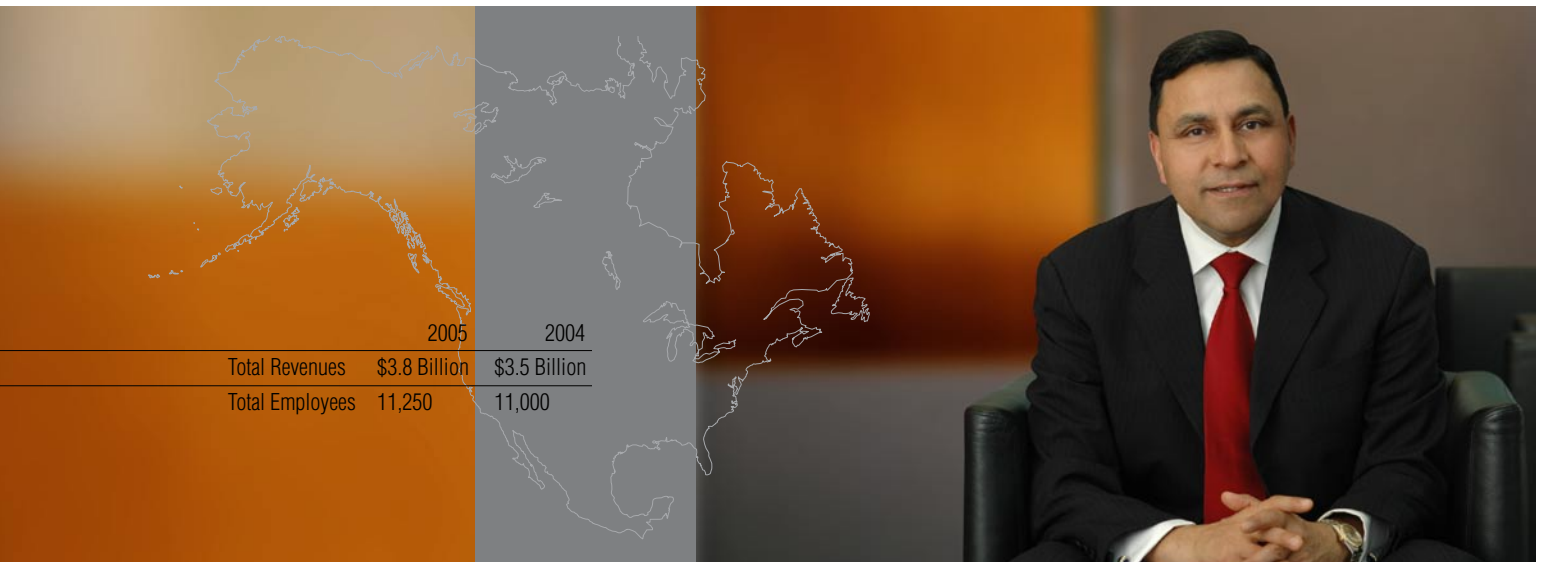
The 2005 hurricane season was the most devastating and costly in recent memory. We not only responded to the needs of our customers with the equipment to restore power as quickly as possible, we donated equipment to help get students in Mississippi back in the classroom. Through the ABB Foundation we donated \$400,000 to the American Red Cross. The ABB Foundation was formed at the time of the 2004 tsunami to harvest and channel contributions from our employees to the needy and to the communities in which we live and work.

Energy

The spiraling costs of energy have captured the forethought of many as concerns linger over future supplies. Our control and automation solutions have proven their worth in helping our customers run more energy-efficient operations, whether they are an offshore platform, a power plant or a paper mill.

Our power conditioning systems are becoming a standard for renewable and alternate sources of energy such as hydrogen fuel cells, wind farm generators and battery energy storage systems by converting the DC electricity generated by these sources to AC power for transmission over the grid.

I thank the customers, suppliers and employees who helped ABB achieve dramatic success in 2005, and look forward to another year of profitable growth. We remain committed to being the supplier of choice and a responsible partner to customers that depend on our contribution in achieving their business goals by driving power and productivity for a better world.



Dinesh Paliwal

Chairman and CEO, ABB – North America
President, Global Markets and Technology, ABB Ltd.
Member of ABB Group Executive Committee

Power Products

ABB has the broadest portfolio of products, systems and services to ensure power grid reliability



Response time was critical in the aftermath of Hurricane Katrina. Within two days, ABB mobilized nine manufacturing plants with extra shifts and had a team on the ground helping to restore power.

ABB responds to the hurricane season in force

The 2005 hurricane season brought havoc along the United States' Gulf Coast. ABB was in a unique position to help bring electricity to the stricken communities. ABB's power equipment manufacturing facilities in Missouri, North Carolina, Tennessee, Georgia, Florida, South Carolina, Virginia, Pennsylvania and Mexico - some working around the clock, seven days a week - supplied the utilities with transformers and other electrical equipment to restore electricity to the city of New Orleans and the other communities impacted by the storms.

ABB worked with other customers to reschedule deliveries of their equipment to provide space for the manufacturing of equipment earmarked for the Gulf Coast, and worked with suppliers to keep the materials needed flowing into ABB factories.



The company also turned to its employees to raise funds for the relief effort and subsequently raised \$400 thousand it donated to the American Red Cross.

New Polytransformer has multiple ratings

A new multi-functional substation power transformer from ABB helps utilities secure their transmission grids with reduced asset investment, enabling the use of a single transformer for a variety of ratings. The voltage rating is selected by changing connections internally prior to moving the transformer to its next location. Because of its compact design, the transformer can be moved from one substation to

ABB produces 1,500 power transformers and 400,000 distribution transformers each year.
Over two-thirds of the equipment in today's power grid is from ABB



ABB manufactures a wide variety of power transmission and distribution transformers, ranging from 10 kVA to over 5,000 kVA. ABB makes 25 percent of the world's high-voltage transformers.

another according to need: failure of a power transformer, increased power supply during peak periods, a temporary replacement for malfunctioning equipment, or as an income source for renting or leasing to other utilities.

Each Polytransformer is tailored to be compatible with the utility's transformer fleet to ensure that it will interchange with the maximum number of installed units. One unit already is providing additional capacity in a substation during peaks, and another is a temporary replacement for a power transformer that experienced a catastrophic failure.

Basin Electric adds ABB switchgear to its fleet

Basin Electric Power Cooperative, the largest generation and transmission cooperative in the United States, is adding 40 more medium-voltage arc resistant SafeGear switchgear frames to its fleet of switchgear, a fleet that already includes more than 175 ABB switchgear frames in its plants. The switchgear is being used at Basin Electric's Leland Olds Station.

ABB's ArcGuard system features light sensors that trip a breaker before conventional systems detect an arc. Arcs that result from disconnects in the switchgear can allow excessive voltage to continue through the equipment, causing avoidable damage to equipment down the line. Arc flash protection is a safety priority for Basin Electric.

Acquisitions fill niches

ABB added to its offering with the acquisition of Malton Equipment Company of Fridley, Minnesota and Pacific Breakers of Napa, California, complementing its existing products and service for a total solution offering.

Malton Equipment is a leading supplier of pad-mounted switchgear that provides protection and control for underground electrical distribution networks, enabling ABB to deliver the benefits of its utility feeder automation capabilities in a coordinated manner, for both overhead and underground distribution systems.

Pacific Breakers specializes in the engineering and manufacturing of solutions to upgrade aging switchgear and circuit breakers used in large utility, industrial and commercial installations aimed at maximizing uptime and minimizing cost.

A non-intrusive way to look inside high-voltage circuit breakers

Radiography is now being used to greatly reduce the risk associated with inspecting high-voltage circuit breakers by not exposing their interior to the outside environment. The new approach can uncover detrimental wear and tear, abnormal conditions and degradation of component integrity in a matter of hours instead of days.

ABB provided radiography inspections for several electric utilities in 2005 and expects this type of inspection to become an important diagnostic tool for customers to assess the condition and reliability of circuit breakers in service.



Power systems

ABB has built more transmission and distribution substations than any other company – well over 5,000



ABB's air- and gas-insulated industrial main plant substations for indoor and outdoor installations increase the efficiency of the distribution system while improving quality performance.

ABB to power steel mill in Mississippi

The DC electric arc furnace scheduled to be built in Columbus, Mississippi will be the first new steel mill of its kind in the United States in many years. The plant will be owned by SeverCorr, LLC and will have the capacity to produce 1.5 million tons of rolled products, primarily for the automobile manufacturing industry.

ABB will provide its Thyribloc® high-power rectifier to convert AC power to DC as the primary power input to the furnace. Two static var compensators will be supplied to control dynamic voltage swings, greatly reducing the potential of brownouts or loss of power to nearby communities.



Included is ABB's newly developed AC 800PEC equipment control platform, the first application of this technology in North America.

On a concrete footing in Mexico

Cementos Cruz Azul selected ABB to provide a power system to link a new plant in Puebla, Mexico to the national grid. The plant will produce 3,000 tons daily of clinker, a blend of materials used in the production of cement.

ABB will build an air-insulated substation, a 400-kilovolt transmission line and a gas-insulated substation. The gas-insulated substation can increase output as the plant's production needs increase. Completion is scheduled within 12 months, which is a record time for the industry.

ABB provides 80 percent of the systems that protect electricity generators and power grids for online reliability



ABB leads the way in strengthening power grids with the latest technologies and equipment for improved control and reliability, and faster-than-real-time grid simulation and modeling.

Keeping the lights on in San Antonio

City Public Service of San Antonio has selected ABB to replace the utility's legacy system with its outage management system and will be joined by the Environmental Systems Research Institute to provide the geographic information system.

The new system will allow the utility to locate outages and outage sources and identify trends and patterns of outages in real time. The system will help reduce the length of outages, and make data dissemination faster and easier.

Reliable power for California

ABB, the Los Angeles Department of Water and Power, and California Edison recently rededicated the converter station located in Sylmar, California. The completion of the upgrade of the southern terminus of the 800-plus mile Pacific high-voltage direct current (HVDC) intertie will enable the transmission of up to 7,900 megawatts of alternating current and 3,100 megawatts of direct current power. The transmission line is one of the world's longest and highest-rated lines. The line services the cities of Burbank, Pasadena, Glendale and Los Angeles.

In addition to increasing reliability and life span of the system with improved seismic design, the upgrade will reduce operation and maintenance costs and increase energy efficiency.

World's most powerful battery becomes a world record

A massive multi-celled battery system developed by ABB and battery maker Saft has powered its way into the book of *Guinness World Records* as the world's most powerful battery.

ABB's battery energy storage system, or BESS, occupies an area larger than a football field. It was built for Golden Valley Electric System, an energy cooperative serving the area around Fairbanks, Alaska to provide electricity to some 10,000 households in case of a power outage.

Strategic collaboration for grid reliability

A multi-year collaboration agreement for ABB to join the IntelliGrid system, the Electric Power Research Institute's collaborative public-private strategic partnership dedicated to making the grid of the future a reality, a grid that is predictive, "self-healing" and more secure. ABB brings to the group its know-how in product innovation and manufacturing.

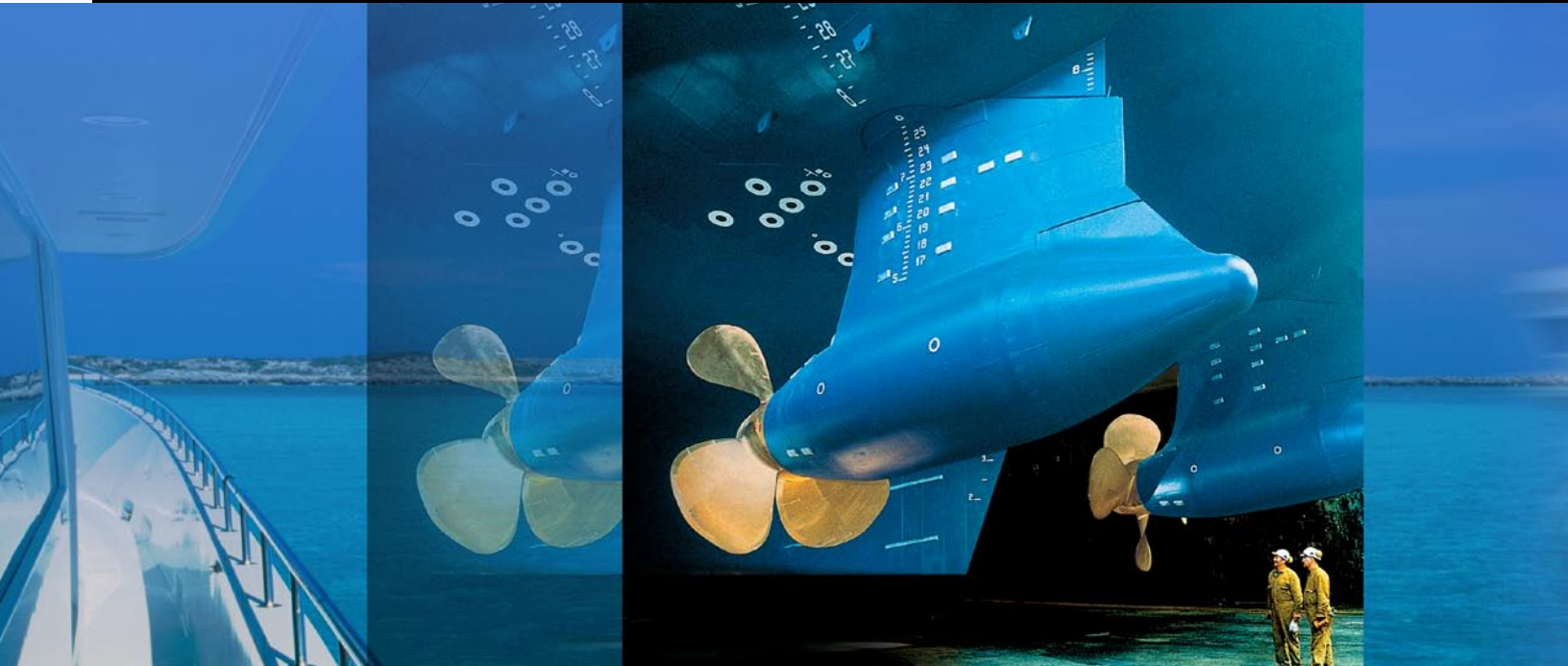
ABB connects Canadian wind farm

ABB was selected to provide design, engineering and construction of all facilities that will connect 30 wind turbines to Canada's power grid, all balance-of-plant work and a 22-kilometer access road for a wind farm on Mt. Miller in Gaspesia, a peninsula in eastern Quebec. When completed, the wind farm will generate 54 megawatts of electricity.



Process automation

ABB Industrial IT technology seamlessly links plant automation, asset optimization and collaborative business processes for measurable productivity and profitability improvements



Azipod® propulsion systems have been fitted to 70 percent of all new cruise ships built during the past few years, and will exceed 2 million operating hours in 2006.

At sea with ABB

ABB is supplying the propulsion and electrification systems for Royal Caribbean's Ultra-Voyager luxury passenger ships for 3,600 passengers, the largest cruise vessels ever built.

The ships will be equipped with three ABB Azipod® propulsion units, a unique modular propulsion technology that reduces noise and vibrations to undetectable levels and improves maneuverability. The propulsion units will lower fuel consumption by approximately 10 percent versus conventional systems.

Power generation and electrification systems for the entire ship, also provided by ABB, will help improve onboard electrical systems efficiencies by reducing power demand of the heating, ventilating and air conditioning systems.



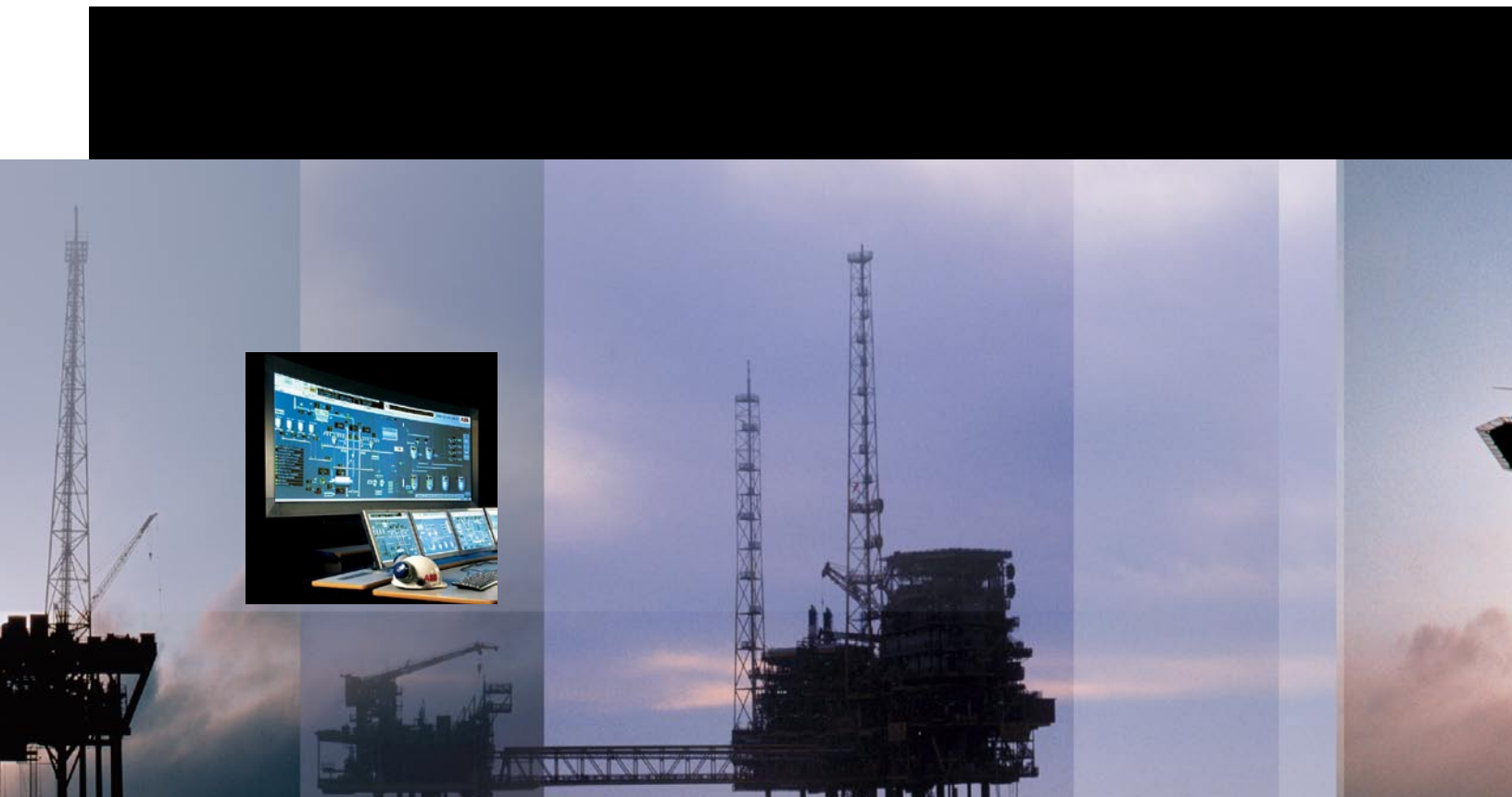
Another innovative way to run your business

ABB has sold nearly 1,500 Industrial IT System 800xA solutions to customers in a wide variety of process industries worldwide, since it introduced the software in January 2004.

Complete integration of plant automation, front-end stock control, packaging, distribution and data management in real time enhances operational efficiency by delivering both cost savings and manufacturing optimization.

Now the Enterprise Connectivity Solutions (ECS) package framework enables the implementation of completely connected factory solutions. ECS provides the ability to monitor the complete plant floor, product lines and shop floor processes.

Since its introduction in 2004, nearly 1,500 Industrial IT System 800xA solutions have been sold, the most advanced of its kind on the market



Offshore oil and gas fields play a crucial role in meeting the world's energy needs. ABB's process control improvements result in production gains through increased asset optimization.

More oil and gas from the bottom of the Gulf of Mexico

PEMEX of Mexico selected ABB to outfit and automate a new oil and gas platform in the Gulf of Mexico to expand the production capacity of the Ku-Maloob-Zapp oil field. The new platform will increase daily production by 80,000 barrels per day of heavy oil and 52 million cubic feet of associated gas.

Included in the package are all process equipment, telecommunications, control, instrumentation, emergency shutdown, fire and gas and electrical systems as well as project design, validation, commissioning and start-up supervision.

Picture perfect quality

The new ABB batch control system at Kodak's U.K. Kirby facility has given the operation the ability to manage and control recipes for each of the products with a sustained level of quality. This was an "incredible achievement," particularly so soon after the installation of the large and complex system, according to the factory manager.

The system includes the latest ABB controllers and software to manage a fully integrated plant producing specialty chemicals for the photographic industry.

Thanks to careful planning, the installation and commissioning went extremely well, and the plant started making quality product exactly on schedule for better control of the facility.

ABB technology increases giant mine capacity at gigantic savings

The Mosaic Company of Plymouth, Minnesota, one of the world's leading producers and marketers of crop nutrients, will increase hoist capacity by 70 percent at its Esterhazy potash mine in Saskatchewan, Canada to make it the largest in the world. When completed, the mine will have an annual yield of 4.6 million tons. Potash is used to make fertilizer.

The AC-powered hoist is more energy efficient, easier to install and particularly well-suited for mines in rural areas. The company estimated savings associated with the new hoist at several million dollars.

ABB rides high in Japanese satellite

Selected by NEC-Toshiba Space Systems of Japan, ABB will provide the key component for a new satellite that will allow the Japanese government to study and measure greenhouse gases. The advanced device, called a Michelson Interferometer, will be supplied by ABB in Canada and installed in Japan's Greenhouse Gases Observing Satellite, or GOSAT.

The interferometer will be instrumental in precise atmospheric measurements, up to 30 times a day, from 650 kilometers above the earth. The measurements will be used to chart and evaluate the atmosphere's carbon dioxide and methane density levels. ABB has been supplying land and satellite-based sensor equipment for more than 30 years.



Automation products

ABB has connected more than 50,000 drives to building automation systems

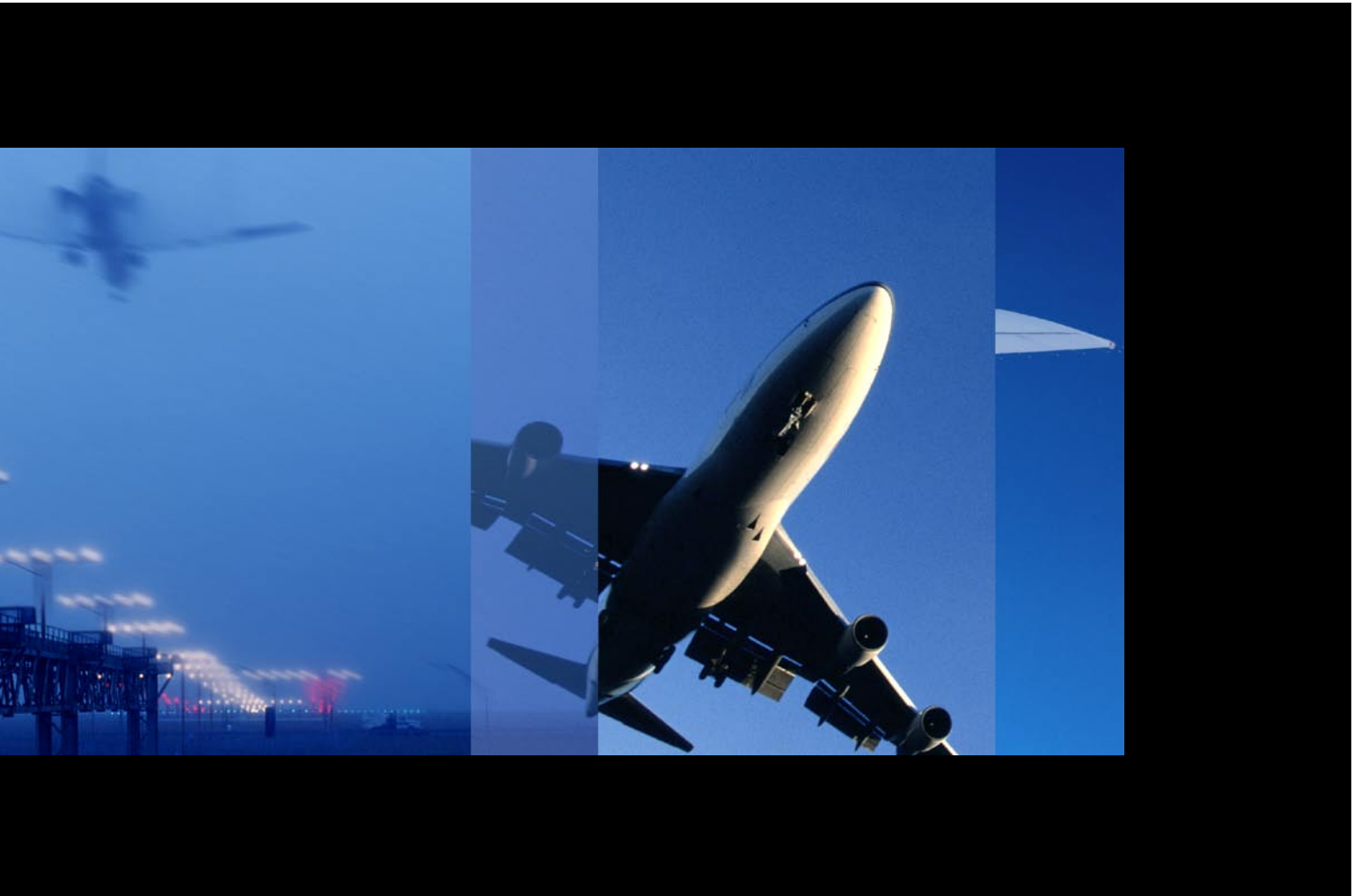


Safety was a concern for an airport that can move 128,000 passengers between concourses each hour. ABB upgraded the ventilation system for the automated people mover with the latest in drives technology.

Safety enhancement at a busy airport

An integral part of the Atlanta airport upgrade included fans that service the automated people mover to handle the additional flow and pressure of air after the underground light rail transportation system was extended to Terminal E. The upgrade had to meet National Fire Protection Association standards for smoke evacuation.

The ventilation system was retrofitted with four six-foot diameter, 125 horsepower reversible vane-axial fans capable of venting and exhausting the tunnel at 120,000 cubic feet of air per minute. Four 125 horsepower ABB drives control the speed of the fans, whether for smoke extraction or general ventilation.



A lesson in fuel efficiencies and reduced emissions

A recent boiler retrofit at the University of Texas at Austin will provide projected electrical savings of 746,000 kilowatt hours and 320 million Btus in fuel per year and a significant reduction in nitrogen oxide (NOx) emissions, thanks to a new combustion control system that uses ABB ACS800 drives. NOx is a main contributor to acid rain.

The combustion control system reduces NOx emissions created during the combustion of fuel to heat the boilers through more efficient flue gas recirculation with ABB drives precisely controlling the recirculation fan. The return on investment on the AC drives and retrofit is yet another lesson – less than one year.

ABB ships more than 1 million products daily, including energy management systems that provide a comfortable, energy-efficient building environment



Institutions today are seeking ways to save energy at a time of escalating energy costs. With ABB technology, universities are able to conserve energy and eliminate waste.

Monitoring university utilities for energy savings

The Department of Plant Operations at Johns Hopkins University recently embarked on the design of a large energy conservation project that would meter steam, chilled water and electricity for the entire campus to help pinpoint energy waste and maintenance problems.

After conducting research and consulting with industry experts, the university decided to use ABB's vortex and swirl flowmeters because of their wide-range capability, high accuracy and low maintenance. The meters offer accuracies of 0.5 percent to 1 percent, and they have no moving parts. Digital signal processing makes them virtually immune to vibration and electrical noise while increasing sensitivity to low flow rates. ABB is the only manufacturer of swirl flowmeters.

ABB's unique Magmeter wins innovator award

Flow Control magazine readers have voted to award ABB's new Magmeter its coveted Innovation Award.

The Magmeter is an electromagnetic flowmeter that employs advanced digital signal processors, enabling better accuracy than typical flowmeters. Featuring AC magnetic field excitation and digital signal processing, the new Magmeter delivers accuracy of +/- 0.5 percent of rate, which is unique for a system with such a fast response time.

ABB completes project for U.S. government

Working for the U.S. Department of Defense (DoD), ABB completed a state-of-the-art research instrument used for the collection of spatial/spectral infrared signatures and chemical analysis of military targets. Known as the Spatial/Spectral Airborne Radiometric Infrared System, or SARIS, it received complete system acceptance from the DoD following testing conducted at Eglin Air Force Base in Florida.

A team of 30 ABB people in Quebec was tasked to fit all components into two one-half spheres 22 inches in diameter that provide accurate data while withstanding significant vibration and temperature variations at altitudes as high as 25,000 feet.

The instrument is mounted under the wing of an F-15 fighter aircraft and provides information at 150 images per second.

Carrier to carry ABB low-voltage drives

ABB and Carrier Corporation signed a corporate supply agreement for ABB's new line of variable frequency drives for heating, ventilating and air conditioning systems. The drives meet Carrier's strict performance criteria and quality assurance requirements.

The drives already are being used in Carrier's commercial products with positive response from its customers, who gain the most because the features and ease-of-use benefits make equipment installation and start-up faster than ever before.

Another ABB drive is being used in other commercial applications such as automated gate controls, medical scanners, pizza ovens and appliances.



Robotics

More than 80 percent of car makers worldwide use ABB robots in their plants to assemble and paint automobiles



Today's customers want more variety in new automobiles, ABB robots can switch tools in seconds to adapt to different models being built on the same assembly line.

Improving new car flexibility for DaimlerChrysler

During 2005, ABB completed the supply of a flexible robotics body shop to DaimlerChrysler in Belvidere, Illinois for the manufacture and introduction of several new world-class cars, including the Caliber, Compass and Patriot models.

The body shop is the most advanced ever delivered by ABB, providing the total flexibility that the automaker requires to meet future market demands. It will enable DaimlerChrysler to switch between different models more quickly, building up to five models on the same production line for cost efficiency.



The Belvidere body shop incorporates a broad range of ABB engineering solutions, including more than 750 ABB robots, Flexicell manufacturing cells, FlexFramer body framing stations, Track Motion robot positioners, 3-D vision systems, dispensing systems, variable frequency drives and relays.

The Belvidere program marks the first time DaimlerChrysler has selected one supplier for a total turnkey body shop in North America.

ABB has more than 140,000 robots installed worldwide in a wide array of applications, more than any other company



ABB robots with vision capability are being used in diverse industrial and food processing applications. 3-D vision guided robots allow for increased flexibility when processing multiple part styles in a manufacturing system.

Robots help keep pretzels flowing to City of Brotherly Love

In Philadelphia, where soft pretzels are more than just a snack, J&J Snack Foods of Pennsauken, New Jersey, makes more than 2 million pretzels a day at the world's largest pretzel factory to keep the city well supplied with this special dietary staple.

To keep pace, the company recently replaced its older machines that were constantly breaking down with ABB's FlexiPicker robots to pick and sort the pretzels as they came down the belt, tossing out defective ones and lining up the rest for bagging.

As a result of installing the robots, J&J Snack Foods has benefited from greater operational efficiencies, reduced labor costs, reduced employee injuries, a cleaner processing environment and reduced maintenance downtime. The company expects payback on its investment of \$2.5 million in just over two years.

ABB Robots help make 70 percent of the world's laptop computers

With laptop computer sales estimated at more than 60 million in the United States and other key markets for 2005, stepped up production was needed but at lower costs. ABB robots machine and paint the frames and casings for top brands such as Apple, Dell and Hewlett Packard.

De-burring tougher magnesium alloy by hand varied the quality of the machining from one operator to another. An ABB patented innovation made it possible to machine the components to a tolerance of less than 0.1 millimeter, giving the casings a smooth, high-grade finish that consumers now consider as standard.

Now, more than 90 percent of manufacturers of magnesium alloy components use ABB foundry robot systems to achieve the precision that complies with the quality demands of consumers.

A robot with a view

When the framing station at Gestamp Automocion's automobile assembly plant in Puebla, Mexico needed de-bottlenecking, Gestamp turned to ABB. Working closely with Gestamp, ABB developed a new, innovative shelf robot that could work on the auto body from an elevated position.

The result was an enlarged working range and increased handling capacity, increasing the productivity of the assembly line. The strong wrist of the ABB robot enables it to handle heavy work pieces with high speed and agility.

Helping to recreate the Big Bang

Two ABB robots are helping to manufacture thousands of high-precision tube assemblies for the Large Hadron Collider at the European Organization for Nuclear Research in Switzerland. The collider will recreate conditions in the universe just after the Big Bang occurred to unveil more about the basic building blocks of life.

Positional accuracy and repeatability, essential to the success of the project, required the most precise and demanding application of a standard robot ever devised. Spot welds of 30 millionths of a meter in diameter need to be centered to within 10 to 15 millionths of a meter to be effective.



Service

ABB's asset management software constantly monitors plant equipment for real-time operational efficiency



ABB develops full-service programs to improve maintenance effectiveness by optimizing management practices, resulting in lower unit production costs and operational expenditures.

ABB Full Service® program gaining traction

According to the ARC Advisory Group, “ABB Full Service provides an attractive, performance-based option for customers looking to focus on improving operations through long-term collaboration and maintenance outsourcing.”

ABB Full Service improves a customer's operation through asset availability, or uptime; performance rate, or speed; and rate of quality output. Overall equipment effectiveness can have a major, favorable impact on profitability.

ABB has more than 150 full-service partnership agreements worldwide, covering the automotive, chemical, electronic, food processing, life sciences, metals, mining, oil and gas, and pulp and paper industries.

ABB acquires assets of HSB Reliability Technologies and Reliability Systems

The capability to deliver comprehensive services was greatly expanded with the purchase of HSB Reliability Technologies and HSB Reliability Systems. The move added productivity improvement solutions to ABB's portfolio through reliability and maintenance expertise, process optimization knowledge and asset management information technologies.

ABB to manage maintenance of International Paper's largest mill

International Paper (IP) and ABB signed an agreement for ABB to manage maintenance operations on a performance basis at IP's mill in Mansfield, Louisiana. The agreement includes the transfer of responsibility for all maintenance-related personnel, activities and equipment to ABB. Included are more than 200 IP and contract maintenance employees.

The Mansfield mill is IP's largest and the world's most productive containerboard complex producing 1.5 million tons annually and is one of two key platform businesses participating in the company's transformation plan at managing cost while improving productivity.

ABB restores power to shipyard in the wake of Hurricane Katrina

One of the major industrial sites rendered inoperable by the flooding following Hurricane Katrina was the Northrop Grumman Ship Systems Shipyard in Pascagoula, Mississippi, the largest employer in the state.

As most of the shipyard's power distribution system was under water, all work came to a standstill. ABB took immediate action by sending in more than 50 engineers and technicians, who put in 18-hour days, and by delivering new equipment and refurbishing system components. Power transformers from ABB manufacturing facilities began arriving in less than one week.

With no hotels in the area, Northrop housed ABB's task force on the *Forrest Sherman*, a U.S. Navy destroyer under construction in the shipyard.

In all, three substations were replaced and more than 330 circuit breakers were cleaned, tested and returned to service in record time. 10,000 shipyard employees were able to return to work in 11 days.



Sustainability

Teaming with industry leaders to bring technology into the realm of sustainability, where wildlife is continually threatened with extinction



The preservation of endangered species is but one facet of a comprehensive sustainability program. ABB strives to balance economic, environmental and social objectives and integrate them into its business culture.

ABB and Microsoft sponsor electrical engineering competition

The two industry leaders teamed to sponsor the sixth annual International Electrical and Electronics Engineering Computer Society Design Competition world finals. Ten teams from universities around the world were challenged in "Going Beyond the Boundaries" to create computer-based systems that perform a socially useful function.

Engineering students worked with people from such diverse fields as health, rehabilitation and wildlife conservation. The contest gave the students the opportunity to develop solutions for areas to which they would never have been exposed.

The winning team was recognized for improving a method to use devices and systems to track endangered wildlife.

Brightening lives one sunrise at a time

Formally introduced to employees in 2005 in a series of meetings calling for a "Time for Caring," the ABB Foundation raised more than \$500,000 for disaster relief causes resulting from the 2004 tsunami and Hurricanes Katrina and Rita.

Although the foundation focused on these major disasters, its principle mission is to improve the quality of life in those communities where ABB employees work and live, by supporting a broad range of local programs that promote education, cultural arts, health and well being.

The ABB Foundation helps employee charitable contributions work harder through matching funds from the company. Its early success shows the real "power of numbers" when many employees pool their contributions.

A drive of a different kind at the University of Wisconsin

The Wisconsin Electric Machines and Power Electronics Consortium (WEMPEC) has incorporated the newest energy-saving drive technology available into the electrical engineering curriculum and studies for undergraduate and graduate students attending the University of Wisconsin – Madison.

According to WEMPEC's co-director, motors and drives are a critical part of research; providing students access to the most current technology available, giving them the tools that are at work in the marketplace. The objective is to familiarize them with how learning can translate directly to work applications on energy conservation.

WEMPEC, founded in 1981, is the world's largest university research center dedicated to the study of electrical machines and power electronics.

Helping kids get back to school

When the St. Clare Elementary School in Waveland, Mississippi was destroyed by Hurricane Katrina, hearts opened across the ABB community. ABB, coordinating with a local customer who is also a school board member, provided key electrical components and assembled and shipped 18 ABB-donated circuit breaker panels to manage ventilation and lighting in temporary classrooms.



People

ABB employees are building more productive business relationships within the company and with customers through innovative thinking



Good people, their skills and ability to respond with the best solution for each customer's needs has made ABB one of the finest business partners in the world.

ITT Goulds honors ABB for team effort

Jim Decker of ABB was presented the Outstanding Contributor Award by ITT Goulds Pumps, known worldwide for pump reliability, for his efforts in the development and support of PumpSmart® 200 Logic, a technology that has resulted in increased pump sales for Goulds around the world.

Jim took the pumpmaker's vision and concepts for PumpSmart Logic and turned them into functioning features, first on ABB drives and then on ABB's next generation of drives. Jim worked with Goulds to help develop the proprietary software in the drive for precise pump and motor operation, proving the technology in real-world applications.

Improving operational efficiency

Marco Marchesi joined ABB as head of an ABB business in Mexico late in 2003. He immediately recognized that ABB had a dedicated group of people working there who wanted the business to reach its full potential.

Under his leadership they began to reinvent their organization, consolidating business inventory and improving internal processes, sharing their individual knowledge. Departments were given accountability and performance measurements.

2004 revenues for the unit increased by 23.5 percent over 2003 with 20 consecutive months of positive earnings. In 2005, revenues increased 34 percent over 2004, underscoring the level of satisfaction with customers.

A drive for a solution wins an order

Public Works and Government Services Canada (PWGSC) developed a very demanding specification for an Energy Management System that resulted in all original bidders being disqualified. ABB was the only vendor that met all the mandatory requirements in the specification.

Although ABB's solution appeared to be a good fit, Bashir Ahmad of ABB in Canada took on the challenge of seeing how well it would meet the requirements and began a dialog with colleagues in Finland. It became a very focused team effort.

What resulted was the largest single installation of an energy management and optimization system in Canada that will help the agency to make decisions in real time and save energy.

Using starch to package products

Supervisor Normand Ricard at ABB's operation in Lachine, Quebec had to find a packing material that would better protect products during shipping, a material that was also environmentally friendly. He turned to a 100 percent biodegradable starch mixture that looks like corn chips and disintegrates in 13 minutes when immersed in water.

Goods damaged in shipment have dropped to almost zero. Customers have been receptive to it as it is the packing material of choice for the pulp and paper and electronic industries.



Products and services

ABB is a global leader in power and automation technologies that enable utility and industry customers to improve their performance while lowering environmental impact. The ABB Group of companies operates in around 100 countries and employs about 104,000 people.

Power Products

- Transformers
- Switchgear
- Circuit Breakers
- Cables
- Associated Equipment

Power Systems

- Turnkey Systems and Services
- Substations
- Substation Automation Systems
- Flexible Alternating Current Transmission Systems (FACTS)
- High-Voltage Direct Current Systems (HVDC)
- Network Management Systems
- Instrumentation, Control and Electrification of Power Plants

Automation Products

- Drives
- Motors
- Generators
- Low-Voltage Products
- Instrumentation and Analytical
- Power Electronics

Process Automation

- Integrated Solutions for Control and Plant Optimization
- Industry-specific Application Knowledge
- Improved Asset Productivity
- Energy Savings

Robotics

- Robots for a Wide Range of Automotive and Industrial Applications
- Robot Software and Programming
- Peripheral Equipment
- Modular Manufacturing Cells

Industries Served

- Automation
- Building
- Cement
- Chemicals and Petrochemicals
- Consumer
- Foundry
- Heating, Ventilation and Air Conditioning
- Life Sciences
- Logistics
- Marine
- Metals
- Mining and Minerals
- Oil and Gas
- Pulp and Paper
- Power Generation, Transmission and Distribution
- Printing
- Rail Transportation
- Refining
- Systems Integration
- Gas and Water Utilities

For More Information, Contact:

ABB Inc.
Corporate Communications
501 Merritt 7
Norwalk, CT 06856
Tel: (203) 750-2200
Fax: (203) 750-7788
www.abb.com/us
Help Desk: (800) HELP 365



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